

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PC1/GB2004/001106

 A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H01L51/30 C09K11/06 H05B33/14 C07F15/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L C09K H05B C07F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, CHEM ABS Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	EP 1 349 435 A (CANON KK) 1 October 2003 (2003-10-01) paragraphs '0063!', '0077!' - & WO 02/45466 A (CANON KK) 6 June 2002 (2002-06-06)	1-10
X		1-10
X	EP 1 239 526 A (CANON KK) 11 September 2002 (2002-09-11) paragraphs '0056!', '0101!', '0102!', '0108!', '0109!' -	1-10
X	US 2002/182441 A1 (ADACHI CHIHAYA ET AL) 5 December 2002 (2002-12-05) paragraphs '0070!', '0071!', '0078!' - '0080!' - -/-	1-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*G\* document member of the same patent family

Date of the actual completion of the international search

22 July 2004

Date of mailing of the international search report

02. 10. 2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	EP 1 348 711 A (CANON KK) 1 October 2003 (2003-10-01) paragraph '0109! paragraph '0147!	1-10
X	-& WO 02/44189 A (CANON KK) 6 June 2002 (2002-06-06)	1-10
X	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 08, 5 August 2002 (2002-08-05) -& JP 2002 105055 A (FUJI PHOTO FILM CO LTD), 10 April 2002 (2002-04-10) the whole document	1-10
X	US 2002/034656 A1 (FORREST STEPHEN R ET AL) 21 March 2002 (2002-03-21) paragraph '0206! - paragraph '0209!	1-10
X	US 2002/024293 A1 (MIYASHITA YOUSUKE ET AL) 28 February 2002 (2002-02-28) page 13, synthesis of K-9	1-3, 5, 8-10
X	LAMANSKY S ET AL: "SYNTHESIS AND CHARACTERIZATION OF PHOSPHORESCENT CYCLOMETALATED IRIIDIUM COMPLEXES" INORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, US, vol. 40, no. 7, 3 January 2001 (2001-01-03), pages 1704-1711, XP002272499 ISSN: 0020-1669 experimental section	1-3, 5, 8-10
X	COLOMBO M G ET AL: "FACIAL TRIS CYCOMETALATED RH3+ AND IR3+ COMPLEXES: THEIR SYNTHESIS, STRUCTURE, AND OPTICAL SPECTROSCOPIC PROPERTIES" INORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, US, vol. 33, 1994, pages 545-550, XP002255816 ISSN: 0020-1669 cited in the application page 545, column 2 - page 546, column 1	1-4, 6, 7
X	KING K A ET AL: "EXCITED-STATE PROPERTIES OF A TRIPLY ORTHO-METALATED IRIIDIUM (III) COMPLEX" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 107, no. 107, 1985, pages 1431-1432, XP001069823 ISSN: 0002-7863 the whole document	11-13

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national application No.  
PCT/GB2004/001106

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-13

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International Application No. PCT/GB2004 /001106

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-13

Claims relating to the preparation of compounds  $M(Ar1-Ar2)_nL$  incorporating the reaction of the dimeric compound of formula (I).

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2. claim: 14

Claim relating to the preparation of a metal complex having diketonate ligands.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
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